## **AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior versions, and listings of the claims in the application:

Claims 1-18. (Cancelled).

19. (Currently amended) A system for delivering pressurized gas to an airway of a patient comprising:

a pressure generating system;

a conduit having a first end operatively coupled to the pressure generating and a second end;

a patient interface operatively coupled to the second end of the conduit;—and
a sensor operatively coupled to the pressure generating system, the conduit, or the
patient interface, wherein the sensor is adapted to detect a parameter indicative of a patient
breathing into the patient interface; and

a processor operatively coupled to the sensor and the pressure generating system, wherein the processor is programmed to determine whether a patient is breathing into the patient interface based on the output of the sensor, wherein the processor is programmed to activate the pressure generating system from a first state in which the pressure generating system is substantially inactive to a second state in which the pressure generating system is operated in accordance with a pressure support mode responsive a determination that such a patient is breathing into the patient interface so that pressurized gas is generated by the pressure generating system.

20. (Previously presented) The system of claim 19, wherein the processor is programmed to deactivate the pressure generating system responsive a determination that such a patient is not breathing into the patient interface to cease generation of the pressurized gas by the pressure generating system.

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21. (Previously presented) The system of claim 19, wherein the pressure generating system comprises:

a pressure generator adapted to generate a flow of gas; and
a pressure controller cooperable with the pressure generator to control the flow of
gas within the conduit at variable pressures.

- 22. (Currently amended) The system of claim 19, further comprising pressure ramping means for executing a ramp cycle in which the a pressure of the pressurized gas increases over time.
- 23. (Previously presented) The system of claim 22, wherein the ramping means includes a manually actuatable mechanism that, when actuated, causes the ramping means to execute the ramp cycle.
- 24. (Currently amended) The system of claim 19, wherein the processor is also programmed to cause the pressure generating system to adjust the pressure of the pressurized gas generating by the pressure generating in to synchronize pressure support mode includes synchronizing the generation of the pressurized gas with an occurrence of alternating inspiratory and expiratory phases of such a patient's respiration in a manner to maintain the positive pressure in the patient's airway during a sequence of the inspiratory and expiratory phases, with and wherein the magnitude of pressure during at least a portion of each expiratory phase being is less than the magnitude of pressure during at least a portion of the immediately preceding inspiratory phase.
- 25. (Currently amended) The system of claim 19, further comprising and an exhaust port defined in at least one of the conduit and the patient interface.